

## Product datasheet for **RG227934**

### Periostin (POSTN) (NM\_001135935) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Periostin (POSTN) (NM_001135935) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Periostin
Synonyms:	OSF-2; OSF2; PDLPOSTN; PN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG227934 representing NM\_001135935  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTCCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCCATAAACGCCAACCAATC  
 ATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGTTCGGGACCAAGGCCAAATGTCTGTGCCCTTCA  
 ACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGAAGAAGTGGTATAAAAAGTCCATCTGTGGA  
 CAGAAAACGACTGTGTTATATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAG  
 CAGTTTGGCCATTGACCATGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTC  
 TGACGCCTCAAACTGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCGAGTAATGAG  
 GCTTGGGACAACCTGGATTCTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAATTACTGAATG  
 CTTTACATAGTCACATGATTAATAAGAGAATGTTGACCAAGGACTTAAAAATGGCATGATTATTCCTTC  
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 AAGAACGAATCATTACAGGTCTGAAATAAAATACACTAGGATTTCTACTGGAGGTGGAGAAACAGAAGA  
 AACTCTGAAGAAATGTTACAAGAAGACACACCCGTGAGGAAGTTGCAAGCCAACAAAAAAGTTCAAGGA  
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**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

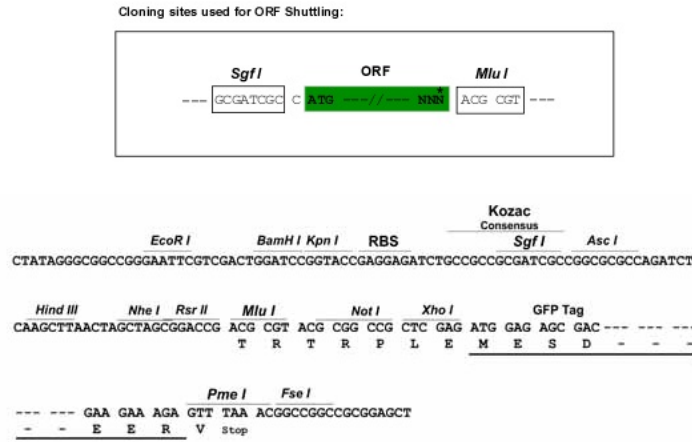
Protein Sequence: >RG227934 representing NM\_001135935  
 Red=Cloning site Green=Tags(s)

MIPFLPMFSLLLLLIVNPINANNHYDKILAHSRIRGRDQGNVICALQQILGTTKKKYFSTCKNWKYSICG  
 QKTTVL YECCPGYMRMEGMKGC PAVLPIDHVVYGLGIVGATTTQRYSDASKLREEIEGKGSFTYFAPSNE  
 AWDNLDSDIRRGLESNVNVELLNALHSHMINKRMLTKDLKNGMIIPSMYNNLGLFINHYPNGVVTVNCAR  
 I IHGNQIATNGVVHVIDRVL TQIGTSIQDFIEAEDDLSSFRAAAITSDILEALGRDGHFTLFAPTNEAFE  
 KLPRGVLERIMGDKVASEALMKYHILNLTQCSESIMGGAVFETLEGNTIEIGCDGDSITVNGIKMVNKKD  
 IVTNGV IHLIDQVLIPDSAKQVIELAGKQQTTFDLVAQLGLASALRPDGEYTL LAPVNNAFSDDT L SM  
 DQRL LKLILQNHILKVKVGLNELYNGQILETIGGKQLRVFVYRTAVCIENSCMEKGSQGRNGAIHIFRE  
 I IKPAEKSLHEK LKQDKRFSTFLSLEAADLKELLTQPGDWTLFVPTNDAFKGMTSEEKEILIRDKNALQ  
 NIILYHLTPGVFIGKGFEPGVN ILKTTQGSKIFLKEVNDTLLVNELKSKESDIMTNGVIHVVDKLLYP  
 ADTPVGN DQ LLEILNKL IKYIQIKFVRG STFKEIPVTVYRPTLTKVKIEGEPEFRLIKEGETITEVIHGE  
 PIIKKYTKIIDGVPVEITEKETREERIITGPEIKYTRISTGGGETEETLKKLLQEDTPVRKLQANKKVQG  
 SRRRLREGRSQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

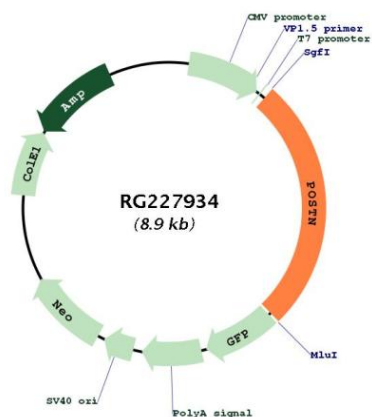


ACCN: NM\_001135935

ORF Size: 2343 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_001135935.1</a>, <a href="#">NP_001129407.1</a></p>
<b>RefSeq Size:</b>	<p>3225 bp</p>
<b>RefSeq ORF:</b>	<p>2346 bp</p>
<b>Locus ID:</b>	<p>10631</p>
<b>UniProt ID:</b>	<p><a href="#">Q15063</a></p>
<b>Cytogenetics:</b>	<p>13q13.3</p>
<b>Protein Families:</b>	<p>Druggable Genome, Secreted Protein</p>
<b>Gene Summary:</b>	<p>This gene encodes a secreted extracellular matrix protein that functions in tissue development and regeneration, including wound healing, and ventricular remodeling following myocardial infarction. The encoded protein binds to integrins to support adhesion and migration of epithelial cells. This protein plays a role in cancer stem cell maintenance and metastasis. Mice lacking this gene exhibit cardiac valve disease, and skeletal and dental defects. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]</p>

Product images:



Circular map for RG227934